

**Department of Public Works and Transportation
Montgomery County, Maryland**

DIVISION OF SOLID WASTE SERVICES



Curbside Christmas tree collection

***MONTHLY REPORT
JANUARY 2006***



Printed on Recycled and Recyclable Paper

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, fiscal year to date (FY Total), and current calendar month in the two prior fiscal years. (County fiscal year 2006 began July 1, 2005.)

FACILITY	Jan FY06	FY06 Total	Jan FY05	Jan FY04
Materials Recovery Facility ⁽¹⁾	8,837 tons	58,870 tons	7,732 tons	7,174 tons
Brunswick Landfill Facility ⁽²⁾	21,390 tons	150,017 tons	18,661 tons	21,319 tons
Resource Recovery Facility ⁽³⁾	58,076 tons	364,348 tons	48,713 tons	50,995 tons
Yard Trim Compost Facility	11,411 tons	60,334 tons	658 tons	1,593 tons

⁽¹⁾MRF tons reported are outgoing.

⁽²⁾This category only addresses waste sent to the landfill for disposal. It does not include rubble that is recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here.

Revenue Analysis and Systems Evaluation – During January, program staff:

- Researched 48 properties and entered billing changes into database;
- Prepared monthly house counts for collection contractors;
- Processed vacancy refunds payable in January;
- Researched 505 new properties and entered billing changes into database;
- Updated Access™ databases and Excel™ spreadsheets for monthly collection contractor reports;
- Continued routine research and correction of solid waste fee abnormalities as they emerge in the property tax database;
- Generated hauler/collector credit account invoices for January 2006 totaling \$1,459,489.86 (an increase of \$187,702.39 over January 2005);
- Updated Aging Report (30-day arrearage was \$2,829.16 as of 2/7/06);
- Reconciled the first 6 months of FY06 tons to monies posted in FAMIS, as well as to the total dollars charged in Paradigm;
- Prepared and mailed 6-month hauler/collector tonnage report forms and instruction letters for the period of July 1st through December 31st, 2005;
- Interviewed candidates for the vacant Accountant/Auditor III position;
- Continued work on the feasibility of a billing system based on measured dumpster service;
- Continued analysis on annual average unit cost historical trends;
- Prepared revised tonnage and revenue projections for FY06;
- Updated the rate model with revised current year revenue and expenditures forecasts and incorporated OMB budget changes; and
- Prepared and presented a major program briefing for SWAC on the subjects of system benefit charges and solid waste enterprise fund management.

CITIZEN COMMITTEES

Dickerson Area Facilities Implementation Group – DAFIG met on December 13th at the Gothic Barn in Dickerson; 11 FIG members and 4 County staff were in attendance. Topics discussed included the winter traffic study, ponds on Site II property, and the Poolesville beauty spot.

The next DAFIG meeting will be held on March 13, 2005, at the Gothic Barn in Dickerson.

Solid Waste Advisory Committee – SWAC held its regular monthly meeting on Tuesday, January 3, in the Executive Office Building Lobby Level Conference Room. Fourteen SWAC members, five County staff and three guests were in attendance. SWAC members were presented with updates on the Solid Waste Enterprise Fund, System Benefit Charge and Revenue Analysis and System Evaluation.

COLLECTIONS

News – There were two holidays in January; New Years Day and Martin Luther King Day. We ran our normal collection schedule both weeks and there were no issues.

Residential Paper - Below are numbers for paper recycling in the County for the past 52 weeks.

CURRENT PERIOD	POUNDS PER HOUSEHOLD	CORRESPONDING PERIOD PREVIOUS YEAR
1/17/05-2/11/05	10.71	9.33
2/14/05-3/11/05	11.05	9.82
3/14/05-4/8/05	11.76	10.19
4/11/05-5/6/05	12.40	10.58
5/9/05-6/3/05	12.35	10.96
6/6/05-7/1/05	11.80	9.97
7/4/05-7/29/05	11.40	9.49
8/01/05-8/26/05	11.72	10.09
8/29/05-9/23/05	12.65	11.34
9/26/05-10/21/05	12.96	10.98
10/24/05-11/18/05	13.19	11.74
11/21/05-12/16/05	13.45	11.94
12/19/05-1/13/06	13.14	12.05

Call Center

Calls received	7,603
E-mails received	788
Blue bins distributed	1,069

Contractor Performance

January 2006 Miss Total	269
January 2005 Miss Total	270
Difference	-1

Public Outreach

Survey Cards – The Inspectors and David Crutchfield distributed 990 survey cards in January receiving 96 back for a return rate of 9.7%. Of the respondents, 86.5% rated our services and programs as either excellent or good.

Comments from Survey Cards

Blue bin (on wheels) was an excellent idea. To cut costs, consider one man trucks with attached, forked can lift for uniform garbage cans, as next step.

Website Survey

For the month of January, 48 residents responded to our website survey. The following are percentages of the results:

Curbside Programs	Excellent	Good	Acceptable	Poor	Unacceptable	Not Answered
Blue Bin	66.7%	25.0%	0.0%	0.5%	0.0%	7.9%
Blue Cart	60.4%	18.8%	0.5%	0.0%	0.5%	19.8%
Yard Trim	42.3%	23.9%	6.3%	0.5%	0.0%	27.1%
Scrap Metal	37.4%	11.4%	0.0%	0.5%	0.5%	50.2%
Trash	50.0%	20.8%	0.5%	0.5%	0.5%	27.7%
Recycling Crew	58.3%	28.1%	12.6%	0.5%	0.0%	0.5%
Trash Crew	35.4%	25.0%	4.2%	0.5%	0.5%	34.4%
Call Center Staff	66.7%	4.2%	4.2%	0.0%	0.0%	24.9%

Programs Residents Familiar with	Yes	No	Not Answered
HHW	72.9%	16.7%	10.4%
Holiday Slide Schedule	85.4%	8.3%	6.3%

Comments from Website Surveys

Sent an e-mail question and received information back within a half hour.

Great job! We appreciate the service.

THANKS! I am very pleased with the professionalism our Montgomery County solid waste program provides. I received a response within 2 business days after I contacted the recycle department to about a stolen recycle bin and was notified that I would receive a replacement bin within a week. Now, that's prompt service!

Your web site is a gem. It is among the most usable sites I've ever seen. All information is readily accessible. In addition, the site doesn't require any fancy browser features (e.g. Flash, Javascript), so it's easy to use in any browser, and doesn't mess with link colors, so it's easy to navigate. I wish more sites were as well-designed as yours is-- simple and straightforward, informative, yet not utilitarian. In addition, I've received excellent service from your staff in the past, in particular Deborah A. M. Jones. Keep up the great work!

I'm glad to hear that there is a new smaller cart soon to be available for paper recycling. That will be very helpful for those of us in townhouses.

Web Site - The following is information gathered from the Montgomery County Solid Waste web site through the month of January:

E-mail List Memberships

Topic	Members	New Sign-Ups
Holiday Reminder	5,616	153
HHW Announcements	1,886	56
Newsletter Helper	703	19
Facility Updates	294	27

Solid Waste Services Website

Unique Visitors	27,483
Page Loads	104,126

Most Popular Web Pages

1. How to recycle/dispose of...
2. Holidays
3. Trash
4. HHW
5. Christmas trees
6. Special collections
7. Curbside collections
8. Latex paint
9. Curbside recycling
10. Computers

Comments from e-mails

I simply wanted to convey how very much I appreciate your collection updates. They are always most informative and received in ample time to make other arrangements, if necessary.

In addition to useful information, your notices never fail to entertain and lift one's spirits at the end of a long day of work. Who would guess that email from a county agency would be fun to read?! You do a great job.

I really appreciate receiving the newsletter. Like the great services your division provides, this is always informative for services available and just to let us know when there will be a change in service.

Enforcement Actions – Two citations were issued for violation of the County's Solid Waste Law: One for collecting and or transporting solid waste within the county without a valid collector's license and one for collecting and or transporting solid waste within the county without a valid collectors tag attached to the vehicle. Two NOV's were issued for violations of the County's Solid Waste Laws: One for collecting and/or transporting solid waste within the county without a valid collector's license and one for improperly storing or permitting solid waste to accumulate.

WASTE MINIMIZATION

Product Recycled	Approximate weight recycled in January 2006
Computers	60.3 tons
Fire Extinguishers	None
Propane Tanks	0.27 tons
Textiles	None
Construction Materials (Don't Dump – Donate)	3.8 tons
Bicycles	0.7 tons
Rechargeable Batteries	None

Department of Environmental Protection's Home Composting and Source Reduction Activities - The GreenMan Show continues to air daily on Cable Channel 6, with online streaming video and access to past shows via online archives. The show is available to 205,000 cable subscribers within Montgomery County.

The GreenMan Column continues in the Montgomery County and Frederick County editions of the Gazette Newspapers. The column is also accessible online via www.greenmanshow.com and at www.gazette.net under "Columns."

Plans are underway for a school-wide series of worm composting demonstrations and four new VermiLab stations for Kingsview Middle School, scheduled for Green Day at Kingsview on April 20.

A new VermiLab program is being developed for North Chevy Chase Elementary School in conjunction with their application for a Maryland Green School Award.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection – In January, 2,489 patrons used the regular HHW drop-off program at the Transfer Station.

Mercury (Hg) Free Campaign – The program for collecting Hg thermometers and passing out digital thermometers continues to receive active participation via walk-ins at the Transfer Station office and exchanges at the HHW drop-off sites.

Small Quantity Generator/Ecwise Program – One Small Quantity Generator (SQG)/Ecwise event was held on January 11th; 8 companies participated in the event.

AIR PERMITS AND ENVIRONMENTAL PROGRAM

Resource Recovery Facility (RRF): CEMS Tracking of RRF Operations – The CEMS indicated that all 3 units operated for 26 days in January. Unit 1 was offline only on January 1st and unit 2 was offline from January 28th through the end of the month. During weekends, the units operated at reduced loads ranging from 57% to 87%. At approximately 10 p.m. on January 27th, the CEMS showed a CO spike for unit 2 indicating that the unit was being brought offline. Inquiries with Covanta indicated that the unit was taken out because of low pit inventory. Thereafter, units 1 and 3 operated until the end of the month. There were no equipment malfunctions that affected stack emissions in January with the exception of the incidents discussed above.

The monthly "Opacity Test" was conducted on January 9th. The opacity test is a requirement under the RRF Title V Air Permit. As in past tests, the opacity readings were 0% compared to the Title V Air Permit limit of 10%.

In the first week of January, the set of CEMS CD-ROMs were updated to include CEMS data up to December 31, 2005. Copies of the CDs were placed in the Rockville and Poolesville libraries.

FIG-SWAC Air Quality Subcommittee – There was no activity of the Subcommittee this month. ENSR prepared responses to comments and suggestions received from Mirant and DNR on the Cumulative Health Risk Assessment report. DSWS is currently reviewing ENSR's responses. After discussions with ENSR, the responses will be finalized and revisions will be made to the draft report on the Cumulative Health Risk Assessment. The revised draft report will be distributed to the Air Quality Subcommittee in late February. The U.S. EPA is still reviewing the technical data that was submitted by DSWS in November. The data supports the RRF Health Risk Assessment methodology outlined in EPA's guidance documents. The Agency's comments are expected in February or March 2006.

Oaks Landfill Air Emissions and Energy Recovery – SCS Engineers submitted gas sampling results at the Oaks Landfill for the month of January 2006. In January, gas samples were taken at the flare inlet on January 5th, 6th, 11th, and 17th for a total of six samples. From a total of 6 gas samples, the gas flow ranged from 963 standard cubic feet per minute (scfm) to 1032 scfm for an average flow of 989 scfm. Methane levels were also measured on those four days both at the blower inlet and the flare inlet for a total of 14 measurements. From a total of 14 measurements of methane concentrations in the gas, the methane levels ranged from 53.5% to 55.6% for an

average of 54.3%. SCS continues to conduct monthly gas sampling and analysis at the Oaks under the Engineering Services Contract.

Contracts and RFP's

- **ENSR Contract** – ENSR's contract expires in May 2006. This contract will not be renewed. ENSR is currently working on two projects, the Dickerson Facilities Cumulative Health Risk Assessment and the Non-Air Media Monitoring Program. ENSR will also address EPA's comments when they are received. These projects are expected to be completed in May, 2006.
- **TES Contract** – TES contract expires in August 2006. A Request for proposal (RFP) will be prepared in March 2006 to select a new contractor. TES performed the monthly maintenance work for the month of January. All instruments including the anemometer, wind vane, temperature and dew point sensors, and the rain gauge have been performing correctly. Data recovery for all parameters was 100% for the month. The total rainfall for January was 3.32 inches.

RECYCLING

Public Education and Outreach – Staff forwarded the Outreach Services contracts to the Office of Procurement for their final review and signature. All five contracts have been signed by all other parties. Planning and preparations are underway for Recycling Awareness Week activities during the week of May 22nd-26th. Staff prepared for and participated in the Quarterly Solid Waste Briefing to the T & E Committee on January 19th.

Recycling Investigations— Since this unit was established, 457 investigations have been conducted. In January, the Recycling Investigations Unit issued 32 NOV's for infringements against the recycling regulations and/or Chapter 48. Two Citations were issued to businesses in January; one for not recycling the required materials under ER 15-04AM and one for solid waste on the ground.

Commercial Recycling and Waste Reduction— Staff conducted 844 on-site visits of businesses in January and resolved 5 complaints. In a continuing effort to improve recycling programs at small businesses, 302 desk-side recycling bins were distributed to businesses in January. Staff began conducting re-evaluations of each Montgomery County Public School that received a grade of "D" or below on their initial recycling evaluation. Recycling plans continue to be reviewed for initial compliance and field verifications are being conducted to confirm the presence of recycling programs as indicated in the plans. Annual recycling reports from large businesses have been received and are being reviewed and field verified. Eleven large businesses failed to file their recycling report by the February 1st deadline. These businesses have been forwarded to the Recycling Investigations Unit for enforcement action. Medium and selected small businesses and properties owners of multi-tenant office buildings have until March 1st to file their recycling reports. Work commenced on an activity to research commercial recycling tonnages that have not been otherwise reported to the

County. An engineering contractor has been selected to perform the work and will initially call one thousand businesses that are believed to generate significant amounts of recyclable materials.

Multi-Family Recycling and Waste Reduction – Staff conducted 133 on-site visits of multi-family properties in January to educate management, tenants and contractors to ensure recycling compliance of properties. Educational tools and materials given to property management to help promote recycling awareness included: 15 Managers Guide to Recycling booklets; 650 informational brochures and flyers; 2,355 stickers; and 225 posters. To further help increase recycling efforts of multi-family properties, staff also delivered a total of 670 blue bins in January. The TRRAC Annual Recycling and Waste Reduction Reports continue to come in. The winter edition of the TRRAC newsletter is in the development stage.

Mixed Paper Recycling– Existing educational materials were distributed to residents at events. Larger quantities of materials were also provided to homeowner associations and civic groups for their use and distribution.

Volunteer Activities – During January, 2 volunteers contributed three and one-half hours of their time to support recycling activities by visiting 110 homes in their neighborhood to educate their neighbors about recycling. Six new volunteers were recruited during January.

PILOT PROGRAMS

Cooperative Collection/Alternative Collection – An on-site kick-off meeting has been scheduled for February 9th with the engineering firm tasked with the comprehensive waste and recycling analysis of several businesses' waste stream in downtown Bethesda. This meeting will review current recycling and waste collection procedures in place and develop an implementation plan to conduct the waste analysis. At this time, it is expected that the contractor will conduct the waste assessments beginning in late February.

In addition, meetings continue to be held with potential businesses in Wheaton to conduct a third study.

Tubgrinding Pilot – Tubgrinding of screened rejected material was conducted from September 29–October 28, 2005; 10,170 cubic yards of material was produced. 1,217 yards were sold in January.

FACILITY ACTIVITIES

Resource Recovery Facility – The RRF processed 58,076 tons, or 1,873 tons per day. Trash deliveries averaged 11,725 tons/week. There were no noteworthy events impacting operations. Loads were reduced to maximize electrical generation revenues due to low waste receipts.

There were no OSHA recordable incidents during the month.

There were no generation emergencies issued by Mirant during the month. There was no need to purchase power during the month.

There were no forecasted Code Red Days during the month.

There were no reportable air or water quality environmental excursions during the month.

The following environmental activities occurred:

- Performed the monthly visible emission (Method 9) observation required by the RRF's Title V permit;
- Submitted the December 2005 Water Supply Monthly Operating Report to MDE;
- Submitted the stack test results to MDE and EPA;
- Submitted the triennial waste profile sheet for the ash residue to the BWMF;
- Submitted the 4th quarter 2005 Operations and Emissions report to MDE;
- Submitted the 2nd Calendar Half 2005 Semi-annual Report to EPA and MDE as required by 40 CFR 60 Subpart Cb;
- Submitted the 2005 Annual Sewage Sludge Generators Report to MDE;
- Submitted the 4th Quarter 2005 NPDES Discharge Monitoring Report to MDE;
- Submitted the 1st quarter 2006 Potable Water Bacteriological Monitoring Report to MDE; and
- Mitchell Welsh, regional inspector for MDE, performed a routine solid waste inspection of the facility on January 26th. No significant issues of concern were noted.

Materials Recovery Facility – Approximately 1,961 tons of commingled material were shipped out and approximately 6,876 tons of mixed paper were loaded out and transferred to OPS' processing facility in January 2006. Bids were received for repairing sections of the concrete slab floor in the tipping area and where the compactor is positioned in the processing area. The transition chute between the conveyor at the glass-sort line and the conveyor that feeds the glass-sort line conveyor was modified. Another chute—this at the conveyor bringing material to the pre-sort station conveyors—was modified to reduce materials slipping to the underside of the conveyor frame.

Oaks Landfill – Rummel, Klepper & Kahl is near completion of the final design and specifications for a replacement leachate line, part of which will be a force main, to replace several thousand feet of partially blocked gravity line downgradient from the ash disposal cell. DSWS continued contract negotiations for operation of the leachate pretreatment facility for the next five years.

Gude Landfill – Covanta Power Pacific, Inc. gave notice that they will close the gas-to-energy power plant on March 25, 2006. DSWS previously installed an enclosed ground flare system to take over landfill gas management. In addition, DSWS began work on an RFP to see if there are any other firms interested in developing beneficial use of

landfill gas projects at Gude Landfill. SCS Engineers plans to begin work on the expansion of the gas collection system in February 2006.

Transfer Station – During January, Covanta shipped via rail 49,991 tons of processible waste from the Transfer Station to the RRF; 8,478 more tons than shipped in January 2005.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

The transfer of leaves from the fall and winter leaf vacuuming efforts was completed.

The inbound radiation detectors had 8 alarms in January 2006. There were no false alarms (alarms that could not be re-verified) – 4 of the 8 alarms were identified as low levels of medical isotopes with short half-lives in trash. All were accepted. Four of the alarms involved drivers or passengers who had undergone recent medical tests or treatment involving radioactive isotopes, and residual radiation.

Site 2 Landfill Properties – The Department is proceeding with the coordination of the work to breach the embankments of two ponds located at the Site 2 properties. A site meeting was held between the engineer, the construction contractor, and Montgomery County. DPWT's Leasing Unit is working on the tenant lease for the Draper Property. Staff received chargeback reports for the months of November and December 2005. There was one charge related to HVAC work performed back in July 2005 at the Huang Farm. We suspect the work was performed at the Washe Road House property but was incorrectly coded.

Yard Trim Compost Facility – In January, the Yard Trim Facility received 11,411 tons of material for composting.

Three hundred and eighty-five (385) cubic yards of Leafgro were shipped to distributors.

Bagging Operation – In January 6,000 bags of Leafgro were shipped to distributors. (Each bag is 1.5 cubic ft. weighing 45 lbs.).

Out-of-County Haul

Brunswick County, Virginia – Approximately 15,914 tons of ash residue and 5,476 tons of nonprocessible waste were transported to the County's dedicated disposal cell at BWMF Landfill in Brunswick County, Virginia. Approximately 620 tons of oversize bulky wood waste were shipped from the Transfer Station to Butler Wood Recycling in Tuscarora, MD for recycling.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste	240-777-6400
Customer Service	240-777-6410
Transfer Station	301-840-2370 (County Office) 301-590-1032 (Covanta) 301-330-2840 (MES)
Materials Recovery Facility	301-840-2701 (County Office) 301-417-1433 (MES)
Resource Recovery Facility	240-777-6494 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	www.montgomerycountymd.gov/solidwaste www.montgomerycountymd.gov/recycling www.montgomerycountymd.gov/hazardouswaste

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

TOPIC OR FACILITY	
Latest Tonnage of Materials Recycled in a Fiscal Year in Montgomery County	517,000 (FY05)
Latest Recycling Rate Reported in Montgomery County	41.03% (FY05)
Recycling Goal	50% by December 2010
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 TPD on an annual basis (558,450 tons/yr @ 5,500 BTU/lb waste).
Yard Trim Composting Facility (DCF)	Operations limited to receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY05 tons received- 76,972
# Residences receiving trash collection by County contractors	87,132
# Residences receiving collection of recyclables in blue bins and yard trim collection	206,632
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

ASME	American Society of Mechanical Engineers
BWMF	Brunswick Waste Management Facility, Inc.
CEMS	Continuous Emissions Monitoring System
CFR	Code of Federal Regulation
DEP	Department of Environmental Protection
DNR	Maryland Department of Natural Resources
DPWT	Department of Public Works and Transportation
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
ER	Executive Regulation
FIG	Facilities Implementation Group
FY	Fiscal Year
HHW	Household Hazardous Waste
IFB	Invitation for Bid
MARC	Maximum Agency Request Ceiling
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
Mg/l	Milligrams per liter
M-NCPPC	Maryland National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MSW	Municipal Solid Waste
MWCOG	Metropolitan Washington Council of Governments
NIH	National Institutes of Health
NMWDA	Northeast Maryland Waste Disposal Authority
NOV	Notice of Violation
NTP	Notice to Proceed
OFA	Over Fire Air
OMB	Office of Management and Budget
OPS	Office Paper Systems
OSHA	Occupational Safety & Health Administration
PEPCO	Potomac Electric Power Company
PUF	Public Unloading Facility
QSC	Qualification and Selection Committee
RFP	Request for Proposal
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SHA	State Highway Administration
SORRT	Smart Organizations Reduce and Recycle Tons
SDAT	State Department of Assessments and Taxation
SQG	Small Quantity Generator
SWAC	Solid Waste Advisory Committee
TES	Technical Environmental Services
TRRAC	Think Reduce and Recycle at Apartments and Condominiums